

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	3700643
<b>Application Number:</b>	10531772
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6021
<b>Title of Invention:</b>	Joint symbol, amplitude, and rate estimator
<b>First Named Inventor/Applicant Name:</b>	Thomas P. McElwain
<b>Customer Number:</b>	42716
<b>Filer:</b>	Andrew Paul Cernota/Debra Stengel
<b>Filer Authorized By:</b>	Andrew Paul Cernota
<b>Attorney Docket Number:</b>	20030076-US
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<b>Application Type:</b>	U.S. National Stage under 35 USC 371

### Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1		20030076-US_OAR.pdf	151033	yes	7
			d3bd57c64986585850d2870b5bd950037306		

Multipart Description/PDF files in .zip description		
Document Description	Start	End
Response after Ex Parte Quayle Action	1	1
Specification	2	2
Claims	3	4
Applicant Arguments/Remarks Made in an Amendment	5	7

**Warnings:**

**Information:**

Total Files Size (in bytes):	151033
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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.